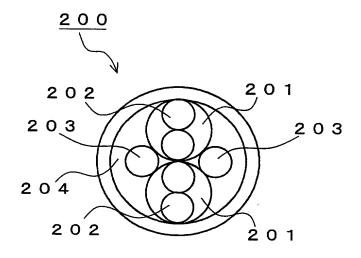
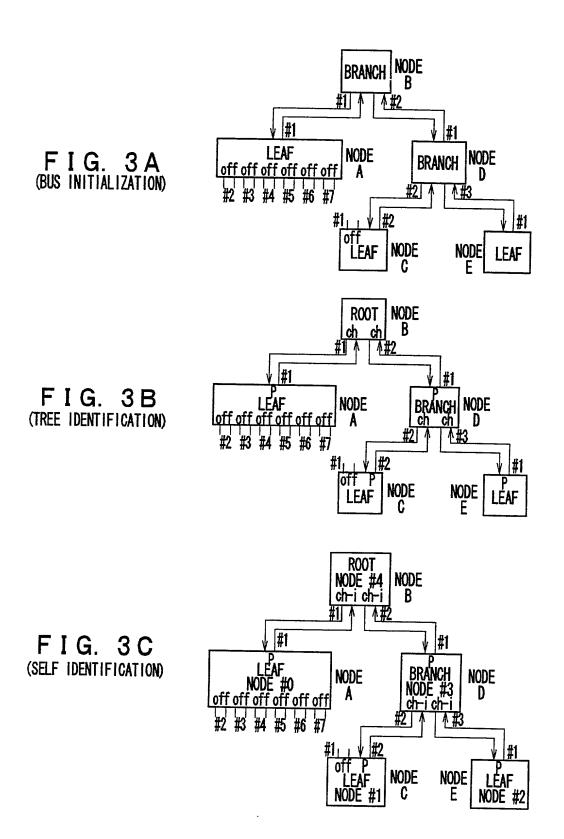
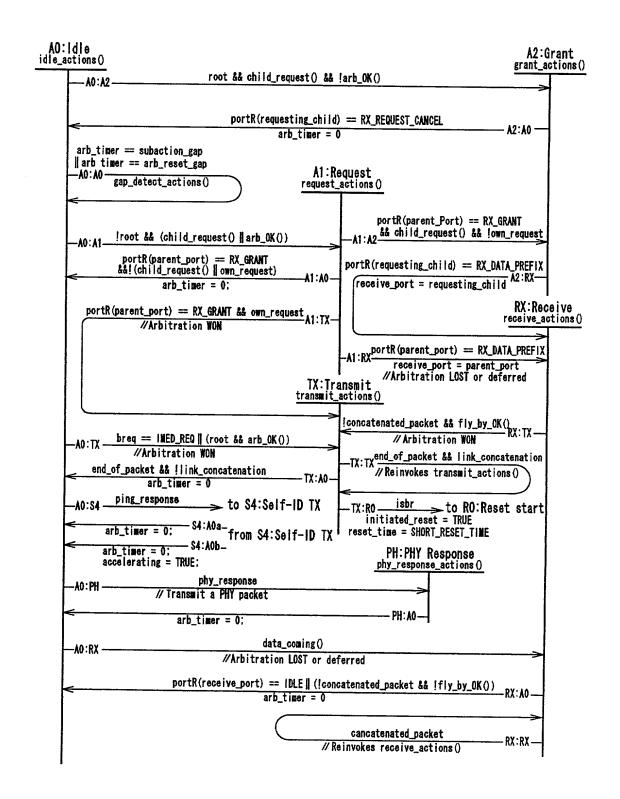
0 STR0BE CL0CK DATA

F I G. 2

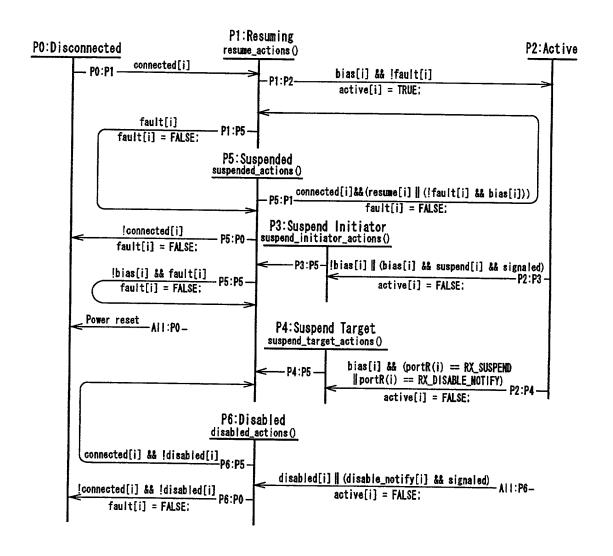




#### F I G. 4



### F I G. 5



NodeE | NodeC | IDLE (ROOT)

NodeD | NodeB | IDLE

NodeA | REQ

F I G. 6 B

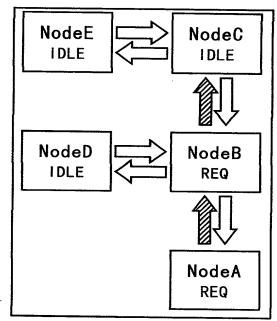
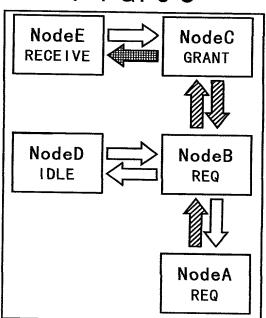
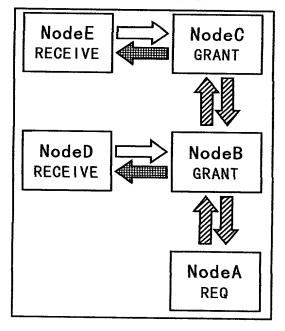


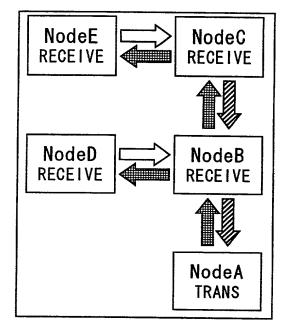
FIG.6C



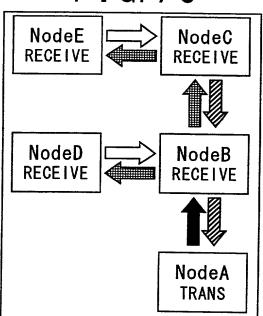
F I G. 6 D



F I G. 7 B



F I G. 7 C



F I G. 7 D

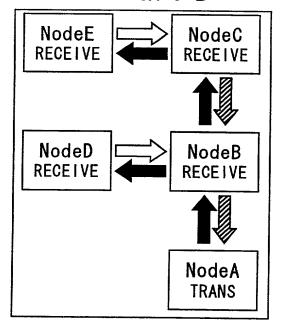
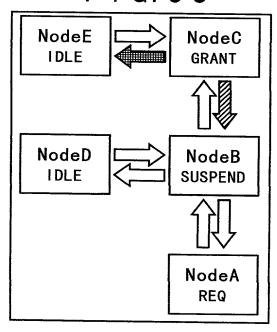


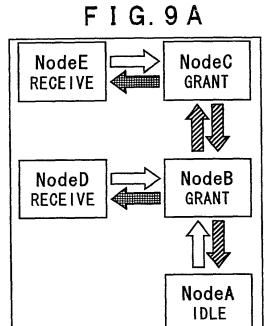
FIG. 8 A

NodeE
IDLE
NodeD
IDLE
NodeB
REQ
NodeA
IDLE

NodeE | NodeC GRANT | NodeD | DLE | NodeB | DLE | NodeA | DLE |

FIG.8C





NodeE RECEIVE NodeC GRANT

NodeD NodeB IDLE

NodeA IDLE

NodeE IDLE NodeC IDLE

NodeD NodeB SUSPEND

NodeA IDLE

HARD DISK DRIVE 0 ∕2 L 2 PRINTER 2 0 200Mbps 100Mbps 5 0 2 PERSONAL COMPUTER SCANNER 20 400Mbps CAMERA 2 0 200Mbps WORKSTATION 0 100Mbps CD-ROM

F I G. 10

F I G. 11

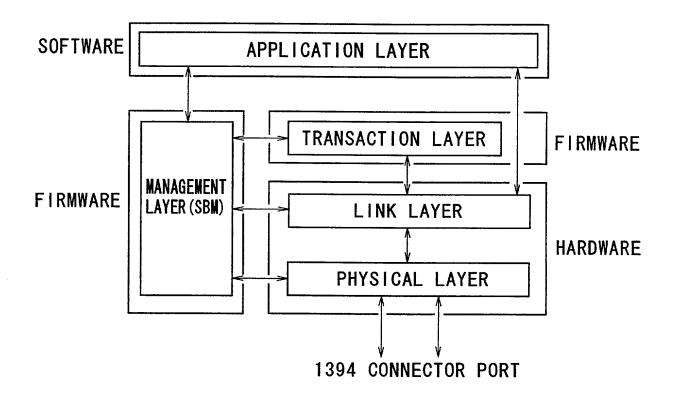
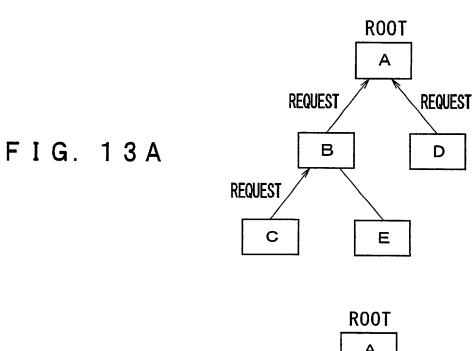


FIG. 12

Subaction	arbitration	packet	Ack	Ack	Subaction
gap	arbitiation	packet	gap	ACK	gap



F I G. 13B

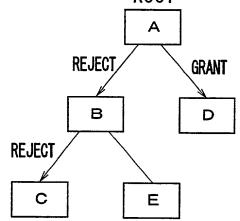
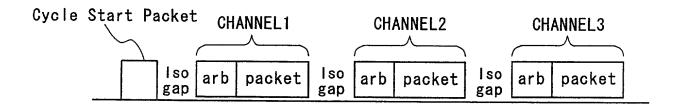
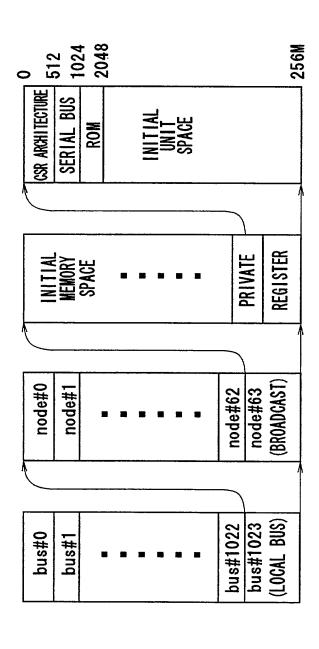
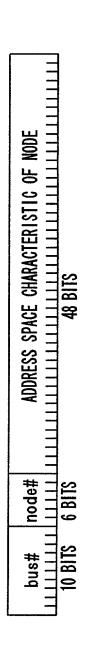


FIG. 14



F I G. 15





F I G. 16

0FFSETS	NAMES	FUNCTIONS
000h	STATE_CLEAR	STATE AND CONTROL INFORMATION
004h	STATE_SET	SET STATE_CLEAR BIT
008h	NODE_IDs	INDICATE 16-BIT NODE ID
00Ch	RESET_START	START COMMAND RESET
018h-01Ch	SPLIT_TIMEOUT	PRESCRIBE MAXIMUM TIME OF SPLIT
200h	CYCLE	CYCLE TIME
210h	BUSY_TIMEOUT	PRESCRIBE LIMIT OF RETRY
21Ch	BUS_MANAGER	INDICATE BUS MANAGER ID
220h	BANDW!DTH_AVA!LABLE	IDTH_AVAILABLE INDICATE BANDWIDTH THAT CAN BE ASSIGNED TO ISOCHRONOUS COMMUNICATION
224h-228h	CHANNELS_AVAILABLE	INDICATE USED STATE OF EACH
		CHANNEL

# F I G. 17

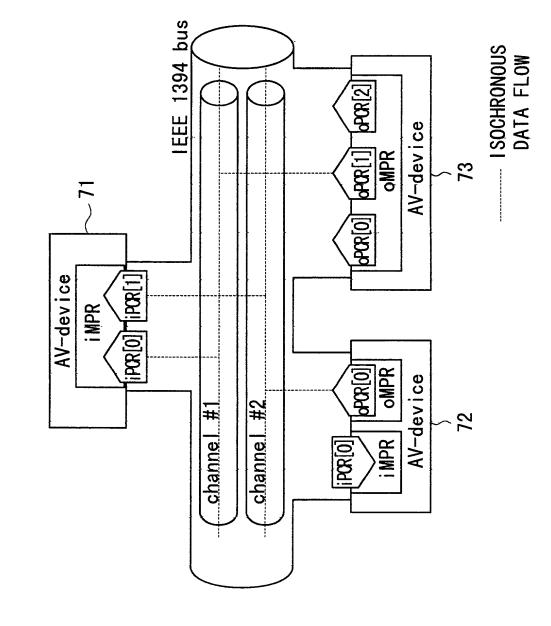
<u>ب</u>											
length →	info_	length	crc_	length	rom_crc_value						
			bus	_info_bl	ock						
info_l	root_directory										
	unit_directories										
	root & unit leaves										
		vendo	r_de	pendent_	information						

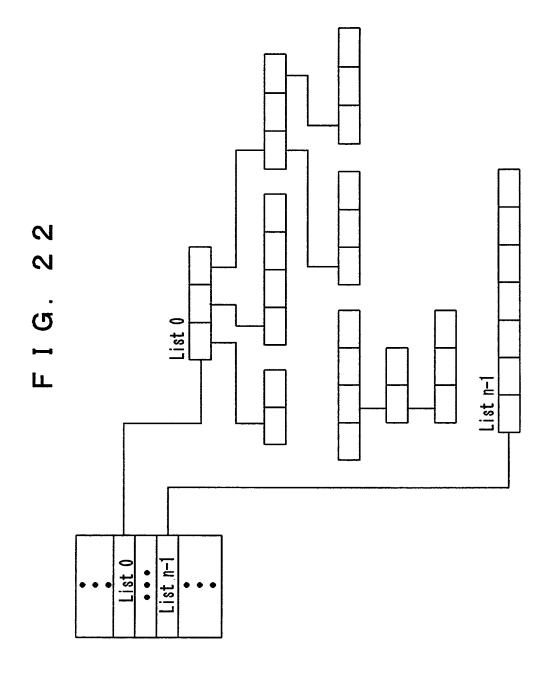
900h	Output Master Plug Register
904h	Output Plug Control Register #0
908h	Output Plug Control Register #1
97Ch	Output Plug Control Register #30
980h	Input Master Plug Register
984h	Input Plug Control Register #0
988h	Input Plug Control Register #1
9FCh	Input Plug Control Register #30

400h	04h crc_length rom_crc_value										
	Bus_info_blo	ck									
404h											
408h	E reserved cyc_clk_acc max_red reserved										
40Ch	Company_ID Chip_ID_hi										
410h		Chip_	1 D_1	lo							
	Root_directory										
414h	root_length CRC										
418h	03h module_vendor_id										
41Ch	OCh node_capabilities										
420h	8Dh	8Dh node_unique_id offset									
424h	D1h	unit_	_direc	tory_offset							
428h											
	Optional.										
	Unit_direc	tory	_								
	unit_directory_length CRC										
	12h unit_spec_id										
	13h unit_sw_version										
,											
		Opti	onal.	Ţ							

	d number of output plugs	5 (bit)		overhead pay load	4 10(bit)		number of output plugs	5 (bit)		reserved	16 (bit)
	reserved	က		data ove rate	2		reserved	က		channel number	9
	persistent tension field	æ		reserved channel number	9		persistent extension field	æ		reserved	2
	<u> </u>	&		point-to-point connection reserve counter	6 2		reserved non-persistent persistent extension field	œ		point-to-point connection counter	9
	ity channel base extension field	9		broadcast poin connection cor counter c	-		reserved	9		broadcast connection counter	
oMPR	data rate capabilit	2	oPCR[n]	on-line co	-	MPR	data rate capability	2	i PCR [n]	on-line	-
	20A			2 0 B			20C			2 0 D	
	F1G. 20A			н — Э			н – Э			F1G. 20D	

F1G. 21





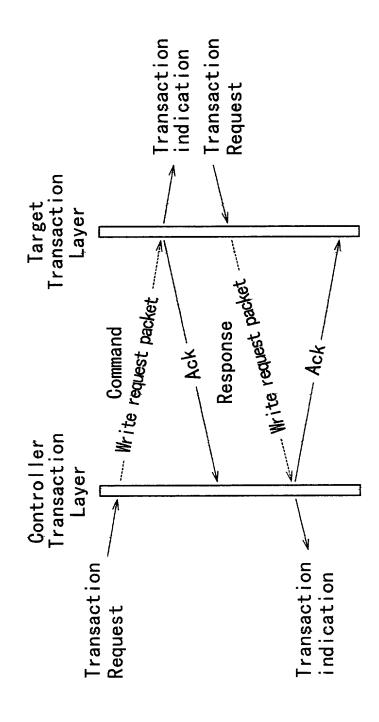
The Gener	ral Subunit Identifier Descriptor						
address	contents						
00 0016	descriptor_length						
00 0116							
00 0216	generation_ID						
00 0316	size_of_list_lD						
00 0416	size_of_object_ID						
00 0516	size_of_object_position						
00 0616	<pre>number_of_root_object_lists(n)</pre>						
00 0716							
00 0816	root_object_list_id_0						
ļ							
	root_object_list_id_n-1						
	subunit_dependent_length						
	subunit_dependent_information						
	manufacturer_dependent_length						
	manufacturer_dependent_information						
,							

generation_ID values							
generation_ID	meaning						
0016	Data structures and command sets as specified in the AV/C General Specification, version 3.0						
all others	reserved for future specification						

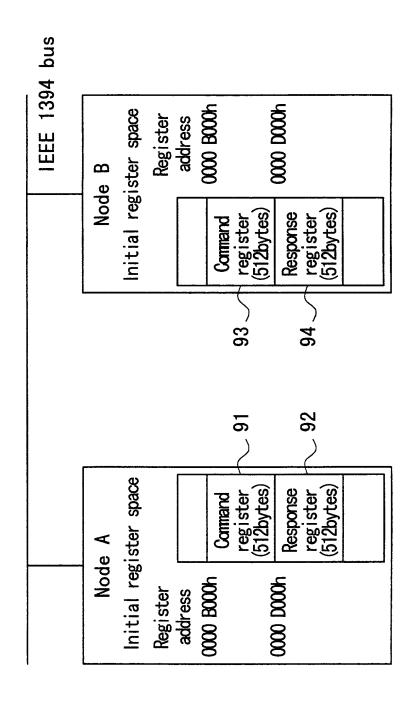
## F I G. 25

List ID Value Assignment Ranges								
range of values	list definition							
000016-0FFF16	reserved							
100016-3FFF16	subunit-type dependent							
400016-FFFF16	reserved							
1 000016-max list ID value	subunit-type dependent							

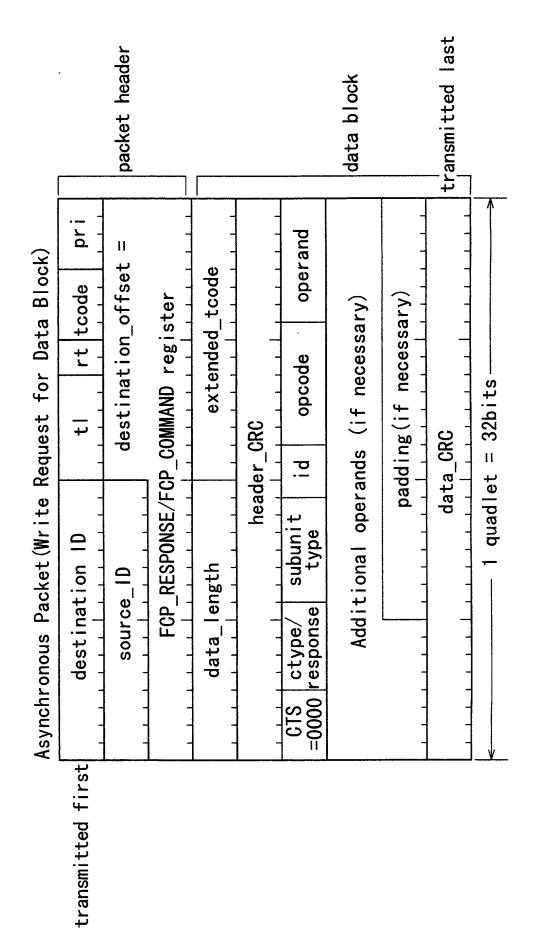
FIG. 26



F1G. 27



F I G. 28



Ctype/response	opcode:Operation Code	OOH VENDOR-DEPENDENT	/ 50h SEARCH MODE	/ 51h TIMECODE	52h ATN	60h OPEN MIC	61h READ MIC	62h WRITE MIC	C1h LOAD MEDIUM	C2h RECORD	C3h PLAY	CAH WIND	~ ~ ~ ~ /				
Subunity				<u> </u>	$\exists$	_								ext			
Stype/response  0000 CONTROL  0001 STATUS  0010 SPECIFIC INQUIRY  0011 NOTIFY  0100 GENERAL INQUIRY  0101 (reserved for future specification)  1001 ACCEPTED  1001 ACCEPTED  1001 ACCEPTED  1001 ACCEPTED  1010 REJECTED  1110 IMPLEMENTED/STABLE  1110 CHANGED  1111 INTERIM	t_type	Video monitor	(reserved)	Disc recorder,	Player	Tape recorder,	Player	Tuner	Video Camera	(reserved)	Vendor unique	reserved	Subunit type	extended to n	byte	Unit	
1100 1110 1111 1111 1111 1111 1111 111	subuni	00000	<u>~</u>	00011		00100		10100	00111	<u>~</u>	11100	111101	11110			11111	
ctype	/response	CONTROL				_								IMPLEMENTED/STABL	CHANGED		INTERIM
TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER	ctvbe	0000	0001	0010	0011	5 0100	0101	<u>~</u>	0111	1000				_	_	1110	1111

F1G. 29A

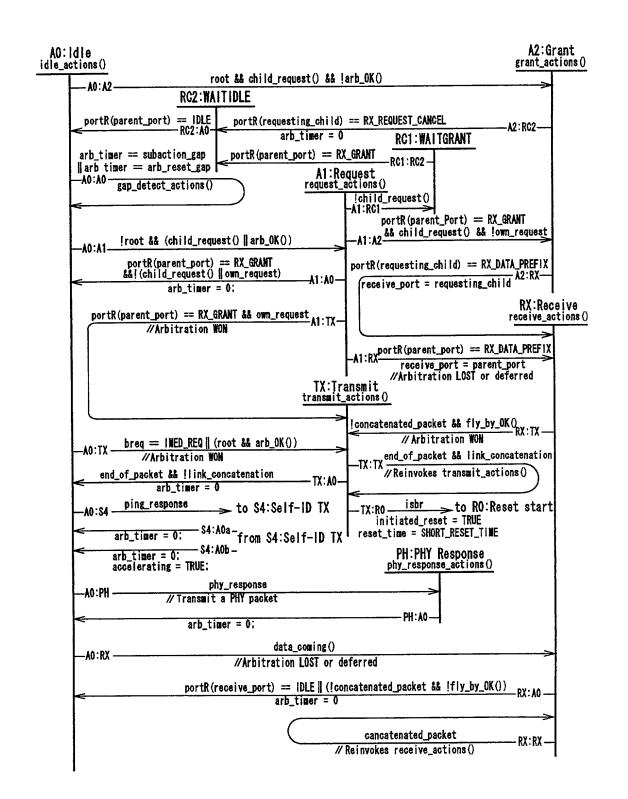
FIG. 29B

FIG. 29C

FORWARD	operand= 75h	FORWARD	operand= 75h
VSE PLAY	opcode= G3h	SE PLAY	opcode= C3h
三 三 三 三 三 三 三	id= 000	THE CA OF 100	i d= 000
tape recorder IN THE CASE AV/C control /player OF IDO PLAY	subunit type= 00100	tape recorder IN THE CASE /player OF IDO PLAY	CTS= response subunit 0000 =1001 00100
control	CTS= ctype= 0000 0000	AV/C accepted	response =1001
AV/G	CTS= 0000	AV/C	CTS= 0000
	30A		3 0 B
	رض ض		<u>.</u>
	<del>Ц</del>		<u>н</u> Ц

20 8 200 00 CABLE PORT2 CABLE PORT3 CABLE PORT1 B (STROBE) B (STROBE) B (STROBE) A (DATA) 705 A (DATA) -106 A (DATA) PORT LOGIC2 PORT LOGIC3 PORT LOGIC1 103 RXCLK1 RXCLK2 RXCLK3 DATA1\_ DATA2 DATA3 RXCLK/DATA SELECTOR ARB. SIGNAL2 ARB. SIGNAL3 ARB. S I GNAL 1 DATA RXCLK. TXCLK PHY L061C 긆 SYSCLK LREO 102 DATA CTRL 100 LINK X' TAL

FIG. 31

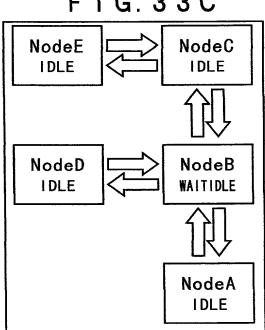


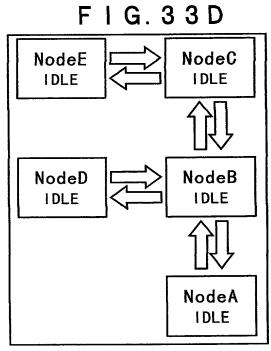
F I G. 33A NodeC NodeE GRANT RECEIVE (R00T) NodeB NodeD IDLE WAITGRANT NodeA IDLE F I G. 33C NodeE NodeC

NodeE RECEIVE NodeC GRANT

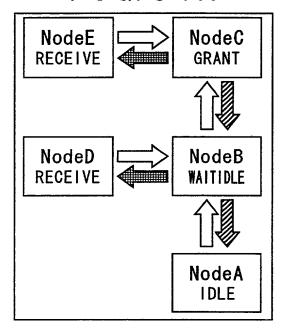
NodeD NodeB WAITIDLE

NodeA IDLE

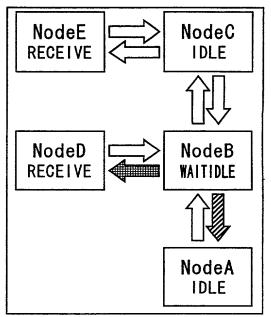




F I G. 34A



F I G. 34B



F I G. 3 4 C

